MASTER

POWER AMPLIFIER
FOR CAR STEREO

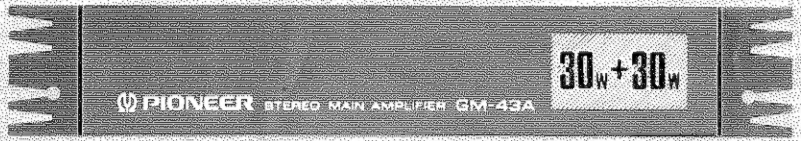
OWNER'S MANUAL

Thank you for purchasing this PIONEER product. Before attempting operation, be sure to read this manual.

Nous vous remercions d'avoir acheté cet appareil PIONEER. Avant de l'utiliser, prendre soin de lire ce manuel.

Muchas gracias por la adquisición de este producto PIONEER. Antes de tratar de operarlo, lea atentamente este manual.

شكرا لك على شرائك جهاز بايونير هذا. قبل محاولة تشغيله تأكد من قراءة هذا الدليل



PIONEER

GM-43A

Features

High-Power 30W + 30W Maximum Output

30W + 30W maximum output gives you sound with power to spare. The BPTL circuit means reduced distortion and improved frequency characteristics.

3 Different Built-In Protective Circuits

Three different built-in circuits (ASO protection circuit, thermal shutdown circuit and surge protector circuit) protect the high power IC from trouble due to overcurrent and heat generation.

Muting Circuit to Prevent Popping Noise

A built-in muting circuit prevents the irritating popping noise heard when power is turned on or off.

H-Shaped Aluminum Heat Sink

H-shaped pressed aluminum heat sink uses air flow to remove heat and high heat removal efficiency is obtained for stabilized power.

A Three Input Selector

This unit is equipped with a three input selector so that you can select from among the booster-compo and pin jack inputs according to your car stereo system.

Connecting the Units

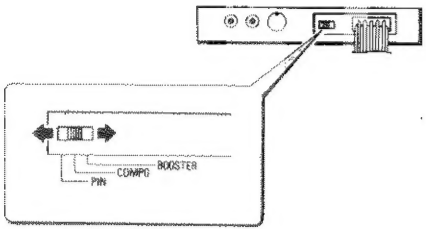
Connect the components correctly as shown in the diagram.

- Test-connect all components before securing them into place. Test-operate your entire car stereo system to ensure that there are no faulty wiring connections between this unit and the rest of your car stereo system.
- Be sure to connect only a single component as shown in the connection diagram. If two or more components are connected, internal circuitry may be damaged or an accident may occur.
- When using this unit in combination with a car stereo equipped with pin jacks, see the section entitled "When combined with a car stereo with pin jacks".
- Speakers connected to this unit must be high power type with over 30W maximum input power and have impedance between 4 and 8 ohms. Be aware of the fact that using a speaker other than the one specified can cause the speaker to be damaged.
- A special BPTL circuit is used to be sure that you do not connect the speaker directly to ground nor join the left and right speaker (−) leads.
- For detailed information concerning connections between different components and this unit consult their respective instruction manuals and follow those recommendations precisely.
- Be sure not to remove the cap on the red lead (female plug) of this unit when not in use to prevent shorting.
- Wire all connecting cords so that they stay well clear of high-temperature areas such as the heater exhaust port.

- To ensure that all components used in combination with this unit operate properly, be sure to wire the main power supply cable (red) correctly to the respectively determined points. Failure to do so or errors in this process will result in total inoperation.
- Be sure to properly connect the color coded leads. Failure to do so can cause malfunctions.

Input Selector

Be sure to set the input selector before wiring. (Fig. 1)



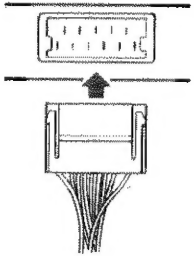
COMPO: When connecting the unit with a component car stereo.

BOOSTER: When connecting the unit with a regular car stereo.

PIN: When connecting the unit with a car stereo with pin jacks.

Fig. 1

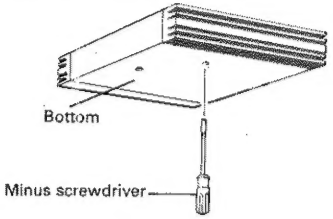
Connections of Cords (Supplied) for Wiring



Gain Control Adjustment

The gain control adjuster is set to the position shown in Fig. 2 when the unit is shipped from the factory. Be sure to adjust the gain control to the position shown in Fig. 3 when connecting to a component car stereo with DIN jack or a regular car stereo (not equipped with pin jacks).

The position shown in Fig. 3 should also be used when the volume of the car stereo output seems to be insufficient even when the volume control is set to a high level.



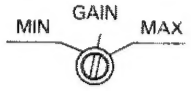


Fig. 2

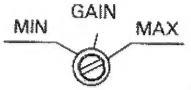
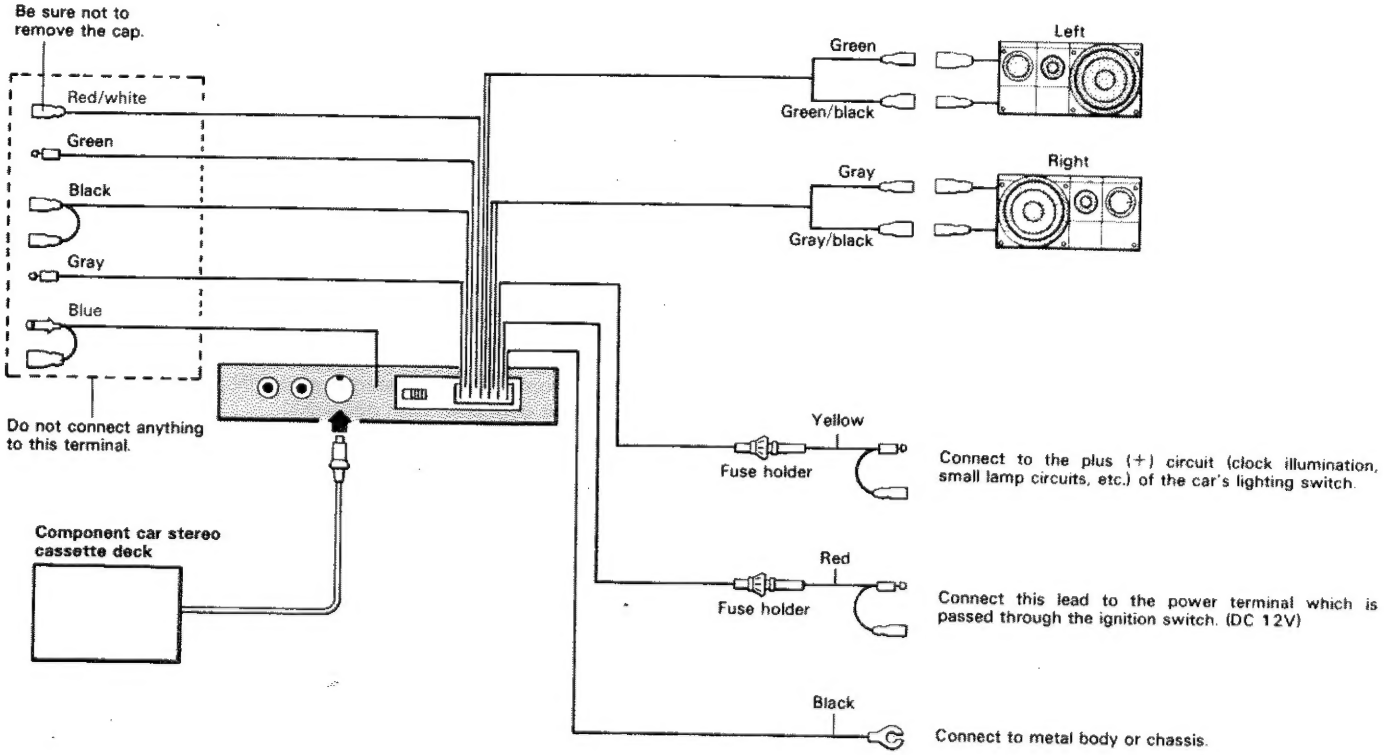
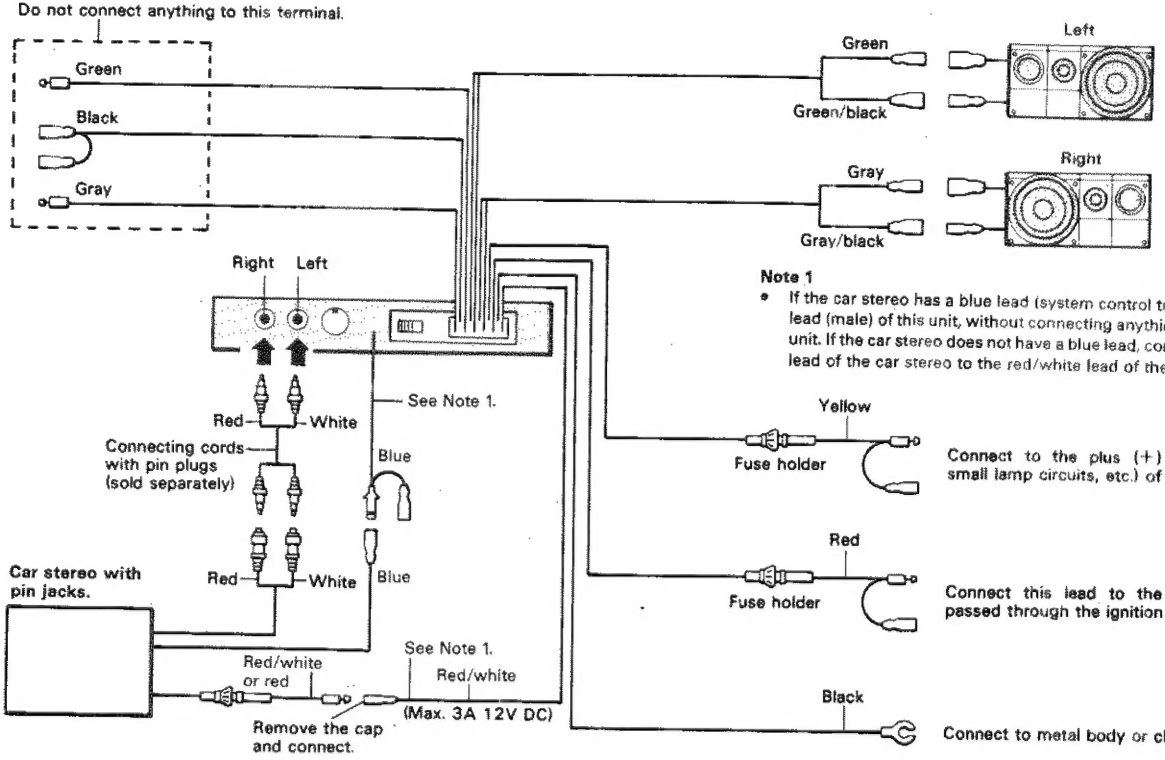


Fig. 3

When Combined with a Component Car Stereo



When Combined with a Car Stereo with Pin Jacks



Note 1

- If the car stereo has a blue lead (system control terminal), connect it to the blue lead (male) of this unit, without connecting anything to the red/white lead of this unit. If the car stereo does not have a blue lead, connect the red/white lead or red lead of the car stereo to the red/white lead of the unit.

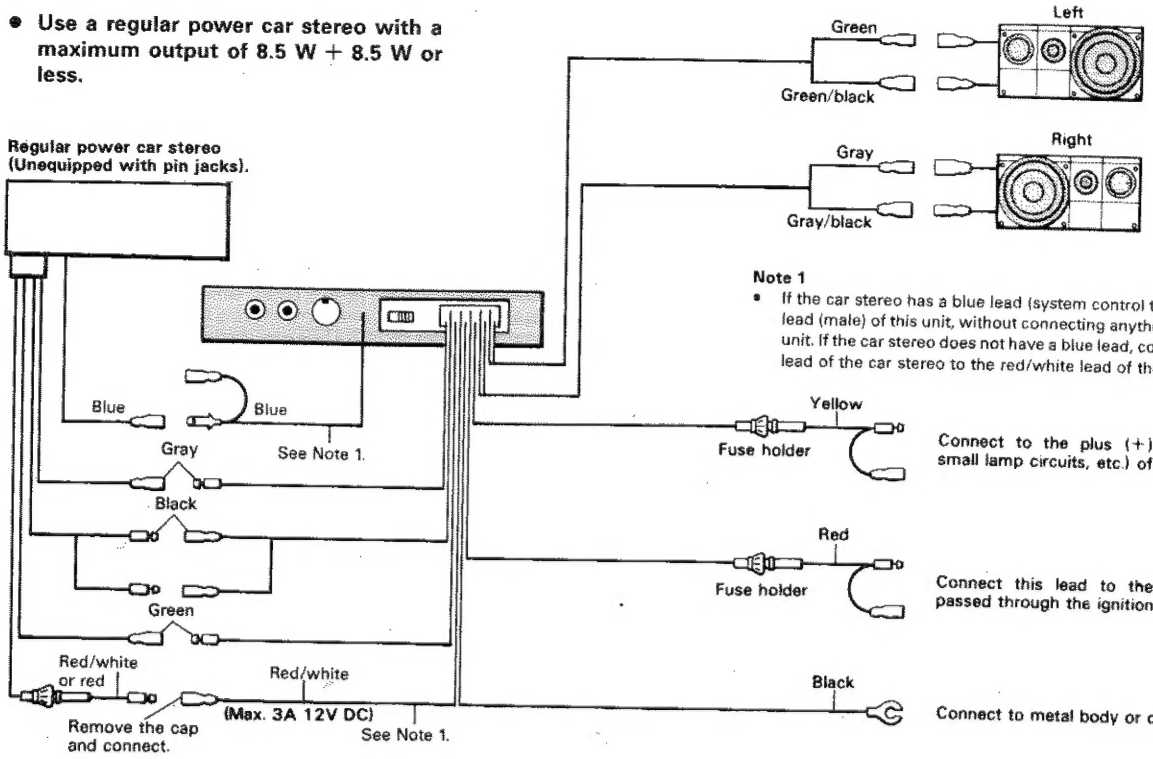
Connect to the plus (+) circuit (clock illumination, small lamp circuits, etc.) of the car's lighting switch.

Connect this lead to the power terminal which is passed through the ignition switch. (DC 12V)

Connect to metal body or chassis.

When Combined with a Regular Car Stereo

- **Use a regular power car stereo with a maximum output of 8.5 W + 8.5 W or less.**



Note 1

- If the car stereo has a blue lead (system control terminal), connect it to the blue lead (male) of this unit, without connecting anything to the red/white lead of this unit. If the car stereo does not have a blue lead, connect the red/white lead or red lead of the car stereo to the red/white lead of the unit.

Connect to the plus (+) circuit (clock illumination, small lamp circuits, etc.) of the car's lighting switch.

Connect this lead to the power terminal which is passed through the ignition switch. (DC 12V)

Connect to metal body or chassis.

Installation

- Be sure to use the parts supplied and install the unit securely. If parts other than those supplied (specified) are used, they may loosen or cause damage to internal parts.
- Be sure to install the unit in a places where the driver is not bothered and where there is no danger of passengers being injured in case of sudden stops.
- Be sure to consult your dealer before making any holes in the car.
- Cooling efficiency is degraded by making installations in hot places such as near the heater outlet, in the glove compartment and under floor mats that are tightly closed.

Before Installation

- First, be sure you have the tools you will need. (Fig. 1)
- To prevent shorts, be sure to disconnect the negative battery terminal. (Fig. 2)

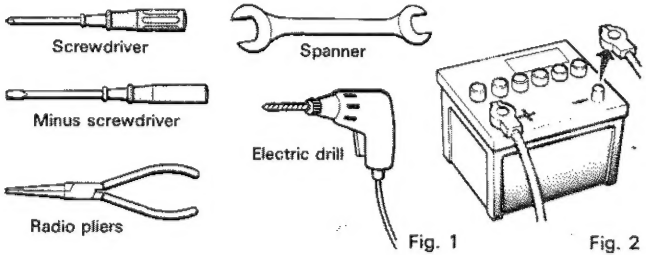


Fig. 1

Fig. 2

Installing on the Parcel Tray

1. After deciding on the installation location, install the mounting angle. (Fig. 1)
2. Install this unit. (Fig. 2)
3. When you finish the installation, be sure to make one more check to be sure everything is done correctly. Reinstall all car parts that were removed. Reconnect the negative battery cable.

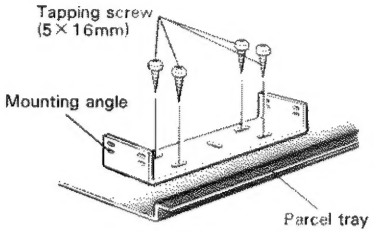


Fig. 1

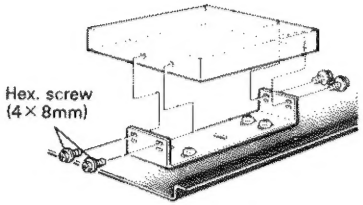


Fig. 2

Installation Below the Dashboard

1. After deciding on the installation location, use a felt pen to mark the places where holes are to be made. (Fig. 3)
2. Use an electric drill to drill 4 holes near the marked places where holes are to be made. (Fig. 4)
3. Install the mounting angle on the dashboard. (Fig. 5)
4. Install this unit. (Fig. 6)
5. When you finish the installation, be sure to make one more check to be sure everything is done correctly. Reinstall all car parts that were removed. Reconnect the negative battery cable.

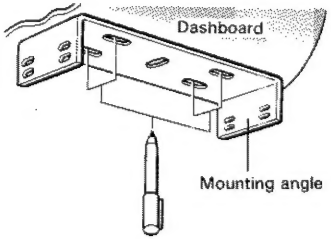


Fig. 3

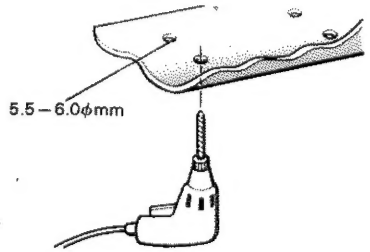


Fig. 4

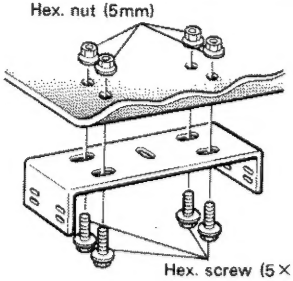


Fig. 5

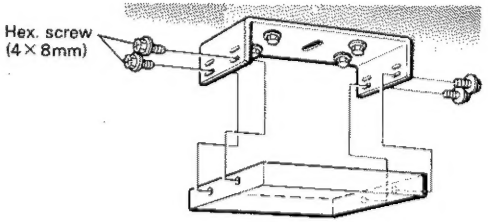


Fig. 6

Installing on the Car Mat

Be sure to observe the following precautions.

- Rain water easily gets on the floor near the door. Also, don't make an installation on the driver seat base because it may interfere with the driver.
- For installations under the front seat, be sure not to obstruct the seat slide. Also, be extremely careful not to let the cords get caught in the slide mechanism where they may be damaged and cause a short.

Using Magic Tape

1. Apply magic tape to the rear of this unit. (Fig. 7)
2. Install on the floor under the seat. (Fig. 8)
3. When you finish the installation, be sure to make one more check to be sure everything is done correctly. Reinstall all car parts that were removed. Reconnect the minus battery cable.

When a Mounting Angle is Used

1. After deciding on the installation location, install the angle. (Fig. 9)
2. Install this unit. (Fig. 10)
3. When you finish the installation, be sure to make one more check to be sure everything is done correctly. Reinstall all car parts that were removed. Reconnect the negative battery cable.

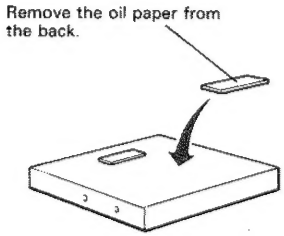


Fig. 7

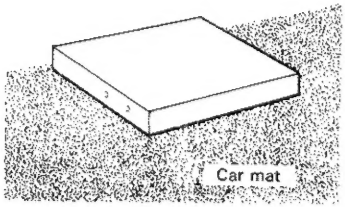


Fig. 8

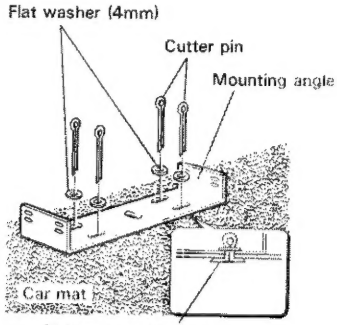


Fig. 9

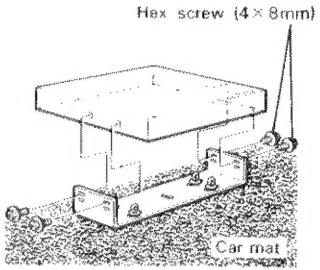


Fig. 10

Precautions

- Enough care must be taken against battery overdischarge caused by long operation of the set at a high sound level when the engine is not running or is idling.
- Replace fuses only with the types stipulated on the fuse holder.
- Dust the heat sinks occasionally so that they will not become clogged.

In case of trouble
When the unit does not operate properly, contact your dealer or the nearest authorized PIONEER Service Station.

Specifications

Power source	14.4V DC (10.8 – 15.6V allowable)
Grounding system	Negative type
Max. current consumption	4A
Dimensions	150(W) × 25(H) × 150(D)mm
Weight	0.7kg

Maximum power output	30W + 30W (EIAJ)
Continuous power output	17W + 17W (1% dist. at 1kHz)
Load impedance	4Ω (4 – 8Ω allowable)
Frequency response	20 – 50,000Hz (±3dB)
Signal-to-noise ratio	93dB (IEC-A network, at 1W)
Distortion	0.02% (at 10W, 1kHz)
Input level	COMPO: 70 – 700mV/22kΩ LINE IN: 0.2 – 2V/15kΩ BOOSTER: 3 – 30V/120Ω

Note:
Specifications and the design are subject to possible modification without notice due to improvements.

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